

AMENDMENTS TO THE CLAIMS

Please replace all prior versions and listings of claims in the application with the listing of claims as follows:

Listing of Claims

- 1.-12. (Canceled).
13. (Currently Amended) A processor-implemented method for processing a raw data stream generated by a financial product provider and carrying a plurality of raw data objects containing information related to financial product offerings and subject to periodic updates, the method comprising the steps of:
 - receiving a raw data object carried on a raw data stream input;
 - determining an object type of the raw data object;
 - generating via a processor a formatted data object based on the contents of the raw data object by applying a set of formatting rules selected in accordance with the determined object type;
 - determining if a prior version of the formatted data object is present in an object storage pool;
 - if a prior version is present in the object storage pool:
 - determining a data differential between the formatted data object and the prior version;
 - updating the prior version of the formatted data object to correspond with the generated formatted data object; and

incrementing a sequence number associated with the formatted data object; and

broadcasting the data differential and the sequence number on an output broadcast data channel selected from a plurality of broadcast channels according to the object type;

otherwise, if no prior version is present in the object storage pool[[;]]:

providing the formatted data object to subscriber processes; and

storing the formatted data object and an associated initial sequence number in the object storage pool.

14. (Currently Amended) The method of claim 13, wherein ~~the step of~~ providing the formatted data object comprises broadcasting the formatted data object on the output broadcast channel.
15. (Currently Amended) A system for processing raw data streams carrying a plurality of raw events containing information which is subject to periodic updates, the system comprising processor-implemented components:
 - an information manager component receiving the raw data streams as input;
 - a processing database component connected to the information manager and having object typing and formatting rules stored therein; and
 - an object storage pool component connected to the information manager;

the information manager component configured to:

 - receive a raw data object carried on a particular raw data stream input;
 - identify an object type of the raw data object in accordance with the object typing rules;

generate a formatted data object based on the contents of the raw data object by in accordance with the formatting rules;

determine if a prior version of the formatted data object is present in the object storage pool and in response to a negative determination: provide the formatted data object to subscriber processes, and store the formatted data object in the object storage pool[[,]];

otherwise, in response to a negative determination: update the prior version of the formatted data object to correspond with the generated formatted data object, identify a data differential between the formatted data object and the prior version, and broadcast the data differential on an output broadcast data channel.

16. (Original) The system of claim 15, wherein the information manager is further configured to:

associate a respective sequence number with formatted data objects stored in the object storage pool;

increment the respective sequence number during an update to the formatted data object in the storage pool; and

broadcast the respective sequence number with the data differential.

17. (Original) The system of claim 15, wherein the formatted data objects are provided to subscriber processes via the output broadcast channel.
18. (Original) The system of claim 15, wherein the information manager is further configured to select the broadcast channel from a plurality of broadcast channels according to the identified object type.

19. (Original) The system of claim 15, wherein the information manager is further configured to apply particular formatting rules selected in accordance with the identified object type.
20. (Original) The system of claim 15, further comprising at least one client manager connected to the broadcast channel; the client manager configured to:
 - receive a particular formatted data object;
 - store the received formatted data object in a database associated with the client manager;
 - receive a data differential for the particular formatted object via the broadcast data channel; and
 - update the stored formatted data object in accordance with the received data differential.
21. (Original) The system of claim 20, wherein the client manager is further configured to provide information related to data objects stored in the associated database to a plurality of subscribing clients.
22. (Original) The system of claim 20, wherein a plurality of client managers are connected to the broadcast data channel.
23. (Original) The system of claim 15, wherein the raw data objects comprise information related to a financial product offerings.
24. (Previously Presented) A system for processing raw data streams generated by respective financial product providers, each stream carrying a plurality of raw data objects containing information related to financial product offerings and subject to periodic updates, the system comprising processor-implemented components:

a translator component configured to receive the raw data objects as input and generate raw events comprising a set of name-value pairs derived from data in the raw data objects;

a processing database component having object typing and formatting rules stored therein;

an offer processor component connected to the processing database and configured to, in response to the receipt of a raw event:

determine an object type associated with the raw event; and

generate an external event containing a formatted data object derived from the contents of the received raw event in accordance with the formatting rules;

an object storage pool component configured to store a plurality of formatted data objects therein;

an offer pool manager component connected to the object storage pool and configured to, upon receipt of an external event:

determine if a prior version of the formatted data object is present in an object storage pool;

if a prior version is present in the object storage pool: determine a data differential between the formatted data object and the prior version, update the prior version of the formatted data object to correspond with the generated formatted data object, and broadcast the data differential on an output broadcast data channel;

otherwise, if no prior version is present in the object storage pool: provide the formatted data object to subscriber processes, and store the formatted data object in the object storage pool.

25. (Original) The system of claim 24, wherein the offer pool manager is further configured to:
 - associate a sequence number with the formatted data object stored in the object storage pool;
 - increment the sequence number upon updating the formatted data object; and
 - broadcast the sequence number associated with the formatted data object with the data differential.
26. (Original) The system of claim 24, wherein the offer pool manager is configured to provide the formatted data object by broadcasting the formatted data object on the output broadcast channel.
27. (Original) The system of claim 24, wherein the offer pool manager is configured to select the broadcast channel from a plurality of broadcast channels in accordance with the object type.
28. (Original) The system of claim 24, wherein the offer processor is configured to apply specific formatting rules in accordance with the determined object type.
29. (Original) The system of claim 24, the processing database further having object validation conditions stored therein; the offer processor being further configured to validate the contents of the raw data object in accordance with selected validation conditions.

30. (Original) The system of claim 24, wherein the object typing and formatting rules are stored in a tree format; the tree having a root node and at least one descendant stream nodes, each stream node being associated with a specific raw data stream; each stream node further having at least one type leaf node descending therefrom, each type leaf node being associated with a specific object type carried by the raw data stream associated with the respective stream node; each type leaf node having at least one associated object typing rule for identifying objects of the type associated with the respective type leaf node.
31. (Original) The system of claim 30, wherein each type leaf node further has at least one associated formatting rule.
32. (Original) The system of claim 24, further comprising at least one client manager in communication with the information manager; the client manager configured to:
 - receive a particular formatted data object from the offer pool manager;
 - store the particular formatted data object in an associated client manager database;
 - receive a data differential for the particular formatted object via the broadcast data channel; and
 - update the stored formatted data object in accordance with the received data differential.
33. (Original) The system of claim 32, wherein the client manager is further configured to communicate information about the formatted data object stored in the subscriber database to a remote location.
34. (Original) The system of claim 24, wherein the raw data object comprises information related to a financial product offering.

35. (Currently Amended) A processor-implemented method for processing raw data streams carrying a plurality of raw data objects containing information which is subject to periodic updates, the method comprising ~~the steps of~~:

receiving a raw data object carried on a raw data stream input;

determining an object type of the raw data object;

generating via a processor a formatted data object based on the contents of the raw data object by applying a set of formatting rules;

determining if a prior version of the formatted data object is present in an object storage pool;

if a prior version is present in the object storage pool:

determining a data differential between the formatted data object and the prior version;

updating the prior version of the formatted data object to correspond with the generated formatted data object; and

broadcasting the data differential on an output broadcast data channel;

otherwise, if no prior version is present in the object storage pool[[;]];
providing the formatted data object to subscriber processes; and
storing the formatted data object in the object storage pool.

36. (Currently Amended) The method of claim 35, wherein the formatted data object stored in the object storage pool has an associated sequence number;

~~the step of wherein~~ updating ~~comprising~~ comprises ~~the step of~~ incrementing the sequence number of the formatted data object; and

~~the step of~~ broadcasting the data differential includes ~~including~~ broadcasting the sequence number associated with the formatted data object.

37. (Currently Amended) The method of claim 35, wherein ~~the step of~~ providing the formatted data object comprises broadcasting the formatted data object on the output broadcast channel.
38. (Previously Presented) The method of claim 35, wherein the broadcast channel is selected from a plurality of broadcast channels according to the object type.
39. (Previously Presented) The method of claim 35, wherein the applied formatting rules are selected in accordance with the determined object type.
40. (Currently Amended) The method of claim 35, further comprising ~~the step of~~ translating the raw data object into a raw event comprising at least one name-value pair prior to ~~performing the steps of~~ determining an object type of the raw data object and generating a formatted data object.
41. (Previously Presented) The method of claim 35, further comprising:
validating the contents of the raw data object in accordance with selected validation conditions; and
upon a failed validation, preventing subsequent broadcast of the data differential or formatted data object derived from the respective raw data object.
42. (Currently Amended) The method of claim 35, further comprising ~~the steps of~~:
receiving a particular formatted data object at a subscriber process;
storing the received formatted data object in a database associated with the subscriber process;
receiving at the subscriber process a data differential for the particular formatted object via the broadcast data channel; and
updating the stored formatted data object in accordance with the received data differential.

43. (Previously Presented) The method of claim 42, wherein the broadcast data channel is received by a plurality of subscriber processes.
44. (Previously Presented) The method of claim 42, wherein the subscriber processes receives a plurality of broadcast channels.
45. (Currently Amended) The method of claim 42, further comprising ~~the step of~~ communicating information about the formatted data object stored in the subscriber database to a remote location.
46. (Previously Presented) The method of claim 35, wherein the raw data object comprises information related to a financial product offering.
47. (New) The method of claim 13, wherein the formatted data object stored in the object storage pool has an associated sequence number;

wherein updating comprises incrementing the sequence number of the formatted data object; and

broadcasting the data differential including broadcasting the sequence number associated with the formatted data object.
48. (New) The method of claim 13, further comprising broadcasting the formatted data object on the output broadcast channel.
49. (New) The method of claim 13, wherein the broadcast channel is selected from a plurality of broadcast channels according to the object type.
50. (New) The method of claim 13, wherein the applied formatting rules are selected in accordance with the determined object type.
51. (New) The method of claim 13, further comprising validating the contents of the raw data object in accordance with selected validation conditions.

52. (New) The method of claim 13, wherein the object typing and formatting rules are stored in a tree format; the tree having a root node and at least one descendant stream nodes, each stream node being associated with a specific raw data stream; each stream node further having at least one type leaf node descending therefrom, each type leaf node being associated with a specific object type carried by the raw data stream associated with the respective stream node; each type leaf node having at least one associated object typing rule for identifying objects of the type associated with the respective type leaf node.
53. (New) The method of claim 52, wherein each type leaf node further has at least one associated formatting rule.
54. (New) The method of claim 13, further comprising:
 - receiving a particular formatted data object at a subscriber process;
 - storing the particular formatted data object in a database associated with the subscriber process;
 - receiving a data differential for the particular formatted object via the broadcast data channel; and
 - update the stored formatted data object in accordance with the received data differential.
55. (New) The method of claim 54, further comprising communicating information about the formatted data object stored in the subscriber database to a remote location.
56. (New) The method of claim 13, wherein the raw data object comprises information related to a financial product offering.